7400079

# THE UNITED SHATES OF ANTERION

## TO ALL TO WHOM THESE PRESENTS SHALL COME:

# Agripro, Incorporated

Wilherens, there has been presented to the

## Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of aquation. Years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it or importing it, or exporting it, or using it in producing a hybrid or different variety therefrom, to the extent provided by the Plant Variety Protection Act \( \)(84 \) Stat. 1542, as amended, 7 u.s.c. 2321 et Seq.)

SOYBEAN

'Agripro 27'

In Testimony Witherrot, Thave hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 30th day of October in the year of our Lord one thousand nine hundred and seventy-four

Commissioner
Plant Variety Probation Office
Grain Division

Agricultural Marketing Service

Real L But

FORM GR - 470 (12-15-72)

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### UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

FORM APPROVED OMB NO. 40-R3712

# APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

NSTRUCTIONS: See Reverse.	2. KIND NAME		FOR OFFICIAL USE ONLY			
. VARIETY NAME OR TEMPORARY DESIGNATION			PV NUMBER 74 00079			
AGRIPRO 27 (Ex 7710)	Soybean 4. FAMILY NAME (Bote	miant)	FILING DATE	TIME A.M.		
· GENUS AND SPECIES NAME	4. FAMILY NAME (BOTE	micai)	2.26.74	9		
			FEE RECEIVED	BALANCE DUE		
	Legumin	OSEE	1: 250.00	\$		
Glycine Max	5. DATE OF DETERM	INA I IVII	\$ 250.00	\$		
-	1972		(257.00)	\$		
· <u></u>	ì	THE PROPERTY OF	City, State, and ZIP	8. TELEPHONE AREA		
NAME OF APPLICANT(S)	7. ADDRESS (Street an	d No. of R.F.D. No.	, (11), (1210)	CODE AND NUMBER		
		th 16th St	reet	(515) 232-069		
AGRIPRO, INC.			1667			
	Ames, I	A 20010				
'	5000 05	10. STATE OF INC	ORPORATION	11. DATE OF INCOR-		
9. IF THE NAMED APPLICANT IS NOT A P ORGANIZATION: (Corporation, partnership	ERSON, FORM OF D. association, etc.)	10.312.01		PORATION		
· ·	-,	Iowa	•	1973		
Corporation	·	10wa	in this emplication	and receive all papers:		
Corporation 12. Name and mailing address of appl	icant representative(s	), if any, to serv	e in this application.			
13. CHECK BOX BELOW FOR EACH ATTAINED TO SEACH A	reeding History of the	ty	tion 52 of the Plant V	ariety Protection Act.		
🔀 130. Exhibit D, Data Indicati		. a state				
X 13E. Exhibit E, Statement of	the Basis of Applicar	it's Ownership				
the section of the se	hat seed of this varie	ty be sold by var.	iety name only as a c	lass of certified seed?		
(See Section 83(a), (1), 163,	answer 17D min	IAC II "Ves "	to 14B, how many ge	nerations of production		
14B. Does the applicant(s) specify t	that this variety be	[ II I CO,	eeder seed?	-		
	tions:			ED CERTIFIE		
limited as to number of general		, , , , , , , , , , , , , , , , , , , ,				
	YES XNO			t-fs issu		
The applicant declares that a viable	le sample of basic see	ed of this variety	4 True 2 dates P	· · · · · · · · · · · · · · · · · · ·		
The applicant declares that a viable ance of a certificate and will be re-	e sample of basic see	ed of this variety	riety believes that th	e variety is distinct,		
The applicant declares that a viable ance of a certificate and will be re-	e sample of basic see	ed of this variety	riety believes that th	e variety is distinct,		
The applicant declares that a viable ance of a certificate and will be re  The undersigned applicant(s) of uniform, and stable as required in	le sample of basic see plenished periodicall this sexually-reproduc n Section 41 and is en	ed of this variety y in accordance v ed novel plant ve utitled to protecti	riety believes that the	ne variety is distinct, ns of Section 42 of the		
The applicant declares that a viable ance of a certificate and will be re  The undersigned applicant(s) of uniform, and stable as required in	le sample of basic see plenished periodicall this sexually-reproduc n Section 41 and is en	ed of this variety y in accordance v ed novel plant ve utitled to protecti	riety believes that the	ne variety is distinct, ns of Section 42 of the		
The applicant declares that a viable ance of a certificate and will be retained uniform, and stable as required in Plant Variety Protection Act.  Applicant is informed that false in	le sample of basic see plenished periodicall this sexually-reproduc n Section 41 and is en representation herein	ed of this variety y in accordance v ed novel plant vo atitled to protecti can jeopardize pr	oriety believes that the on under the provision of otection and result in	ne variety is distinct, ns of Section 42 of the penalties.		
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### INSTRUCTIONS 15 15

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one Copy fee your files. All items on the face of the form are self-explanatory unless noted below.

#### ITEM

- Insert the date the applicant determined that he had a the variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

### EXHIBIT A

### ORIGIN AND BREEDING HISTORY OF AGRIPRO 27 (Ex 7710)

The original cross for AGRIPRO 27 (Ex 7710) was made in 1968 between Cutler and Calland. The F1, F2, and F4 generations were advanced in a winter nursery. The F3 generation and F5 plant rows were grown in Iowa. Early generations were advanced by single seed descent. The line 7710 is an F4 derived line. The line was yield tested in 1971, 1972, 1973. In testing, an off-hilum type of .2% yellow hilum and .2% gray pubescence was detected. Several hundred plant rows of Ex 7710 were grown in 1973 and only lines conforming to a standard type were selected. The variety is stable for characteristics of plant type and maturity.

### EXHIBIT B

## BOTANICAL DESCRIPTION OF THE VARIETY

AGRIPRO 27 (Ex 7710) is a northern, indeterminate soybean variety of maturity group III. It matures a day later than Wayne in Iowa, and it is adapted to areas of the Midwest in which Wayne or Calland are adapted. The flowers are purple and the pubescence tawny. The seed color is yellow and the hilum color black.

AGRIPRO 27 has normal shaped leaves as distinct from "Ovate" or "Narrow" leaf types.

# GRAIN DIVISION HÝATTSVILLE, MARYLAND 20782

OBJECTIVE DESCRIPTION OF VARIETY

(SOYBEAN) NSTRUCTIONS: See Reverse. NAME OF APPLICANTIS) FOR OFFICIAL USE CHLY AGRIPRO, INC. PVPO NUMBER ADDRESS (Street and No., of R.F.D. No.; City, State, and ZIP Code) 137 -VARIETY NAME OR TEMPORARY DESIGNATION 103 South 16th Street Ames, IA 50010 AGRIPRO 27 (Ex7710) Place the appropriate number that describes the varietal character of this variety in the boxes below. SEED SHAPE: 2 = SPHERICAL FLATTENED 11 1 = SPHERICAL 3 = ELONGATE 4 = OTHER (Specify) ISHADE (Place a zero in box if neither light nor SEED COAT COLOR: 1 = YELLOW 2 = GREEN 3 = BROWN 4 = BLACK 1 1 = LIGHT 2 # DARK 5 = OTHER (Specify) SEED SIZE: SEED COAT LUSTER: ) = outr 2 = SHINY 1 9 GRAMS PER 100 SEEDS 1 | SHADE (Place a zero in box if neither light nor HILUM COLOR: 5 = IMPERFECT | dark): l= auff 3 = BROWN\_ 2 = YELLOW 6 4 = GRAY 2 # DARK 1.± LIGHT 6 = BLACK 7 = OTHER (Specify)COTYLEDON COLOR: LEAFLET SIZE (See Reverse): 2 = YELLOW 1 = GREEN 1 = SMALL 2 = MEDIUM 3 = LARGE 1 LEAFLET SHAPE: 1 = OVATE 2 = OBLONG 4 = ELLIPTICAL 3 = LANCEOLATE 5 = OTHER (Specify)
NORMAL (versus ovate or narrow) 5 LEAF COLOR (See Reverse): FLOWER COLOR: I = WHITE 2 = PURPLE 1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK GREEN 3 = OTHER (Specify) POD COLOR: POD SET: 1 = TAN 2 2 = BROWN 3 = BLACK - 1 # SCATTERED 2 = CONCENTRATED ISHADE (Place a zero in box if neither light nor PLANT PUBESCENCE COLOR: I = GRAY 2 = BROWN ) = LIGHT 3 = OTHER (Specify) 2 0 2 = DARK PLANT TYPES (See Reverse): PLANT HABIT: 1 = DETERMINATE 2 = INDETERMINATE 1 = SLENDER 2 = BUSHY 3 = INTERMEDIATE 2 2 3 = OTHER (Specify) HYPOCOTYL COLOR: SEED PROTEIN 1 = GREEN 2 = PURPLE 1 = A 2 = BNUMBER OF DAYS TO FLOWERING (Place MATURITY GROUP: 5 RIS 1 = 00 a zero in first box (i.e. 0 9 ) when days 4 = 11 2 = 03 = 15 = m6 = 10 7 **= v** 8 ≟ VI 9 = VII 10 = viii DISEASE RESISTANCE TO: (Enter zeroz in box(ex) where there is no special disease resistance.) O 1 = BACTERIAL O 2 = SOYBEAN O 3 = DOWNY MILDEW 0 4 = PURPLE 0 5 = POD AND
STEM BLIGHT 0 6 = ROOT 0 7 = FROGEYE 0 8 = STEM O 10 = BROWN 1 9 = PHYTO-PHTHORA 0 11 = TARGET 12 = BROWN O 73 = SUD O 14 = WILDFIRE O 15 = RHIZOCTOMIA 16 = OTHER (Specify) SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in box(ex) where no number is MM. WIDTH EMERGENCE SCORE = 5

MM. LENGTH
OF COTYLEDON

0 1

OF COTYLEDON

MALLENGTH

OF SEEDLING

### INSTRUCTIONS

General: The following publications may be used as a reference aid for completing this form.

1. A. G. Norman, 1963, The Soybean, Academic Press, New York - London

Color

<u>Varieties</u>

Leaf Color: 1\*Light Green

2\*Medium Green

Leaf Size: The following varieties may be used as a guide to identify the relative size leaves.

Size

<u>Varieties</u>

1. Small

2.=Medium

3.=Large

Plant Type: The following varieties may be used as a guide to identify the plant type.

Type

<u>Varieties</u>

1.-Slender

2.=Intermediate

3.=Bushy

### EXHIBIT D

## DATA INDICATIVE OF NOVELTY

AGRIPRO 27 (Ex 7710) is similar to Calland in pubescence, flower and hilum colors; but it differs in that it is susceptible to Phytophthora megasperma var sojae and it is two days later than Calland in Central Iowa. AGRIPRO 27 is also about six inches shorter than either Wayne or Calland and lodges less than either of these varieties. AGRIPRO 27 has been higher yielding than Wayne or Calland in Iowa Yield Tests. (See attached yield data.)

# 1971 IVR TESTS (Average of two locations)

AGRIPRO 27		
<del>Ex-7710</del>	49.2	bu/a
Beeson	45.2	bu/a
Amsoy	44.1	bu/a
Wayne	46.4	bu/a

## 1972 IVR TESTS

Aeripro 27	Adel #1	Adel #2	Creston	Ave <u>Yield</u>	Mat.	Ldg.
Bx 7710	51.8	49.7	53.7	51.7	9-20	1.8
Beeson	46.6	41.0	46.8	44.8	9-16	1.8
Wayne	46.3	41.2	47.7	45.1	9-23	2.3
${\tt Calland}$	45.2	45.6	50.9	47.2	9-22	2.3

## 1973 AGRIPRO TESTS

	Ave								
	Washington, IA	Creston, IA	<u>Yield</u>	Mat.	Hgt.	Ldg.			
AGRIPRO 27			***************************************						
Ex 7710	59.4	50.0	54.8	10-8	41	1.5			
Beeson	51.6	43.1	47.4	10 - 4	39	1.0			
Wayne	52.9	48.6	50.8	10-8	45	2.8			
Calland	49.3	47.4	48.4	10-8	44	2.0			
LSD		5.2				•			

# 1973 IOWA STATE YIELD TESTS - CENTRAL (Average of Three Locations)

Aeripro 27	Yield	Mat.	Hat.	Ldq.	Emerg.	Chlorosis	Seeds Per Lb.
*Ex-7710	52.8	10-3	40	2.6	5	4	2300
Beeson	48.7	9-26	43	2.8	5	4	2300
Wayne	50.1	10-2	45	3.4	1	5	2400
$\mathtt{Calland}$	48.2	10-1	46	3.2	3	3	2400
LSD	3.0						

# 1973 IOWA STATE YIELD TESTS - SOUTHERN (Average of Three Locations)

Heripro 27	Yield	Mat.	Hgt.	<u>Ldg.</u>	Emerg.	Chlorosis	Seeds Per Lb.
Ex 7710	43.5	9-28	45	2.4	5	4	2300
Beeson	41.1	9-22	44	3.4	5	4	2300
Wayne	42.5	9-27	50	3.7	1	5	2500
Calland	39.6	9–28	49	3.6	3	3	2600
LSD	2.4						

### STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP

# Improved Variety Research, Inc.

Harry H. Stine Rt. 3, Adel, Jowa 50003

Dale McCubbin Rt. 5, Marshalltown, Iowa 50158 Vice President Willard C. Latham Alexander, Iowa 50420 Secretary, Treasurer

Harold A. Folkerts Rt. 2, Allison, Iowa 50602 Director, Equipment Designer

To whom it may concern:

This is to inform you that as of June 1, 1973, the following assets of Improved Variety Research, Inc. have been purchased by Agripro, Inc., according to the terms of a contract:

- 1. All soybean seed and genetic and research materials, processes and formulae owned, used or developed by IVR wherever situated, whether in the form of seed stocks, growing plants, or genetic materials.
- 2. All records and memoranda used or maintained in connection with breeding, testing, increasing or any other phase of the soybean seed breeding program.
- 3. All contracts, agreements, leases and rights in connection with breeding, increasing, testing, marketing and producing soybean seed strains, varieties or brands, including variety protection rights.
- 4. All equipment, supplies, and materials including tractors, trucks, planters, cultivators, threshers, seed bags, office equipment.

5. The brand or trade name IVR and its good will.

Sincerely,

Willard C. Latham

Willard C. Latham, Secretary-Treasurer Improved Variety Research, Inc.